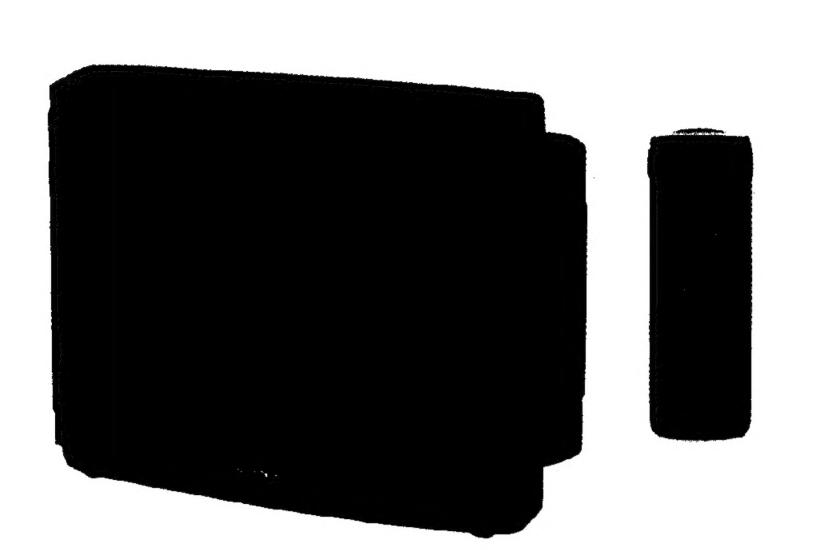
KV-A2122U/A2522U/A2922U RM-816



UK Model

KV-A2122U

Chassis No. SCC-E235-A

KV-A2522U

Chassis No. SCC-E23U-A

KV-A2922U

Chassis No. SCC-E23T-A

AE-1C CHASSIS

MODELS OF THE SAME SERIES		
KV-A2122 U/A2522 U/A2922 U	KV-A2123E	
KV-A2112U/A2512U		
KV-C2522U	,	

SPECIFICATIONS

[KV-A2122U/A2522U/A2922U]

Television system

Color system

Picture tube

Inputs

PAL, SECAM, NTSC3.58, NTSC4.43 NICAM stereo

Stereo system
Channel coverage

1

UHF: B 21-B 69

Hi-Black Trinitron tube Approx. 54.5 cm (21 inches)

(Approx. 51 cm picture measured diagonally)

100 ° -degree deflection

Approx. 63.5 cm (25 inches)

(Approx. 59 cm picture measured diagonally)

110 ° -degree deflection Approx. 72.4 cm (29 inches)

(Approx. 68 cm picture measured diagonally)

110 ° -degree deflection

ö-121-pin connector:

CENELEC standard including RGB input.

→ 2 21-pin connector: including S video input

Flont: 3 Audio and video input jacks:

phono jack.

Including S Video input Y: 1Vp-p±3dB 75ohm C: 0.3Vp-p±3dB 75ohm Outputs

21-pin connector: CENELEC standard

Headphones jack: stereo minijack Audio output jacks: phono jack

(output dependent upon TV settings) 30 W + 30 W 15 W + 15 W (RMS)

Sound output 30 W + 30 W 15 W + Power consumption 126 W (KV-A2122 U)

127 W (KV-A2522 U)

167 W (KV-A2922 U)

Dimensions incl.speakers Approx. 615×439×448 mm (w/h/d)

(KV-A2122 U)

Approx. $677 \times 501 \times 481 \text{ mm (w/h/d)}$

(KV-A2522 U)

Approx. $761 \times 568 \times 512 \text{ mm (w/h/d)}$

(KV-A2922 U)

Weight incl.speakers

Approx. 28kg (KV-A2122 U) Approx. 40kg (KV-A2522 U)

Approx. 55kg (KV-A2922 U)

-Continued on next page-



TRINITRON® COLOUR TV SOLOUY SO

[RM-816]

Remote control system

infrared control

Power requirements

3 V dc

2 batteries IEC designation

R 6 (size AA)

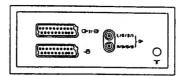
Dimentions

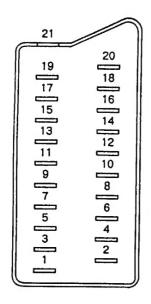
Approx.75 \times 221 \times 23 mm (w/h/d)

Weight

Approx.230 g (including Batteries)

Design and specifications are subject to change without notice.





Pin No.	1	2	Signal	Signal level
1	0	0	Audio output B (right)	Standard level: 0.5Vrms Output Impedance: Less than 1kohm*
2	0	0	Audio Input B (right)	Standard level: 0.5Vrms Input Impedance: More than \$0kohms*
3	0	0	Audio output A (left)	Standard level: 0.5Vrms Output Impedance: Less than 1kohm*
4	0	0	Ground (audio)	
5	0	0	Ground (blue)	
6	0	0	Audio input A (left)	Standard level: 0.5Vrms Input Impedance: More than 10kohms*
7	0	•	Blue input	0.7V ± 3dB, 75ohms, positive
8	0	0	Function select (AV control)	High state (9.5 – 12V): Part mode Low state (0 – 2V): TV mode Input Impedance: More than 10kohms Input capacitance: Less than 2 nF
9	0	0	Ground (green)	
10	0	0	Open	
11	0	•	Green	Green signal: 0.7V ± 3dB, 75ohms, positive
12	0	0	Open	
13	0	0	Ground (red)	
14	0	0	Ground (branking)	
15	0	-	Red input	0.7V ± 3dB, 75ohms, positive
	-	0	(S signal) croma input	0.3V ± 3dB, 75ohms, positive
16	0	•	Blanking input (Ys signal)	High state (1 – 3V) Low state (0 – 0.4V) Input Impedance: 75ohms
17	0	0	Ground (video output)	
18	0	0	Ground (video input)	
19	0	0	Video output	1V ± 3dB, 75ohms, positive Sync: 0.3V (- 3, +10dB)
20	0	-	Video Input	1V ± 3dB, 75ohms, positive Sync: 0.3V (- 3, +10dB)
~ 5	-	0	Video Input/Y (S signal)	1V ± 3dB, 75ohms, positive Sync: 0.3V (- 3, +10dB)
21	0	0	Common ground (plug,	shleid)

O connected

unconnected (open)

* at 20Hz - 20kHz

4 Pin Connector (€)

Pin No	Signal	Signal level
1	Ground	
2	Ground	
3	Y (S signal) input	1V ± 3dB 75ohm, positive Sync 0.3V ₊₁₀ dB
4	C (S signal) input	0.3V ± 3dB 75ohm, positive

TABLE OF CONTENTS

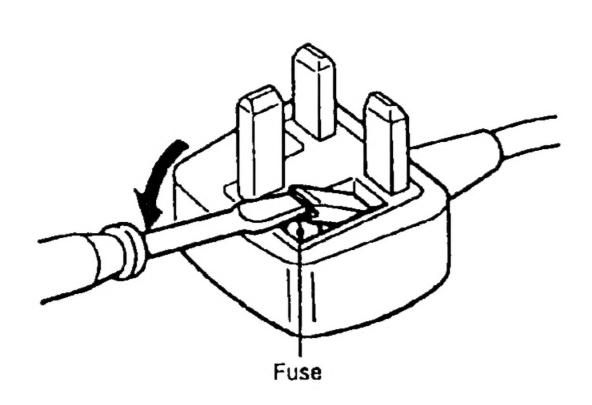
Sectio	<u>n</u> <u>Title</u>	<u>Page</u>
1.	GENERAL	
1-1.	TV Channel Presetting	4
1-2.	Basic Functions ······	6
1-3.	Special Functions·····	6
1-4.	Use of the Teletext Service ······	7
1-5.	Connections and Optional Functions	9
1-6.	General Information	10

CAUTION

The flexible mains lead is supplied connected to a B.S. 1363 fused plug having a fuse of 5 amp capacity. Should the fuse need to be replaced, use a 5 AMP FUSE approved by ASTA to BS 1362, i.e., carries the mark.

How to replace the fuse

Open the fuse compartment with the blade screwdriver, and replace the fuse.



(CAUTION)

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAPTOTHE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

WARNING!!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.

THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK A ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SECTION 1 GENERAL

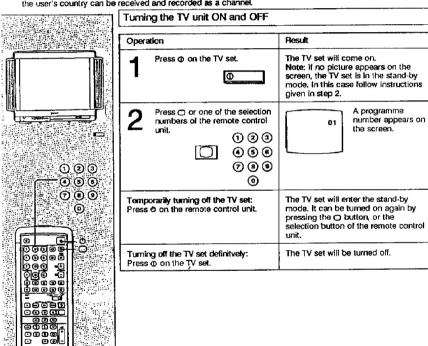
1-1. TV CHANNEL PRESETTING

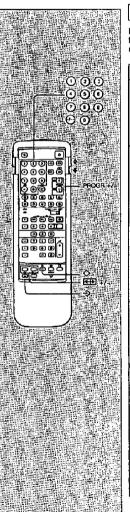
After installing the TV set, TV channels must be preset.

Barbaran (1996) and the second of the second

TV broadcasting stations broadcast their programmes on certain fixed frequencies (channels). In order to receive these programmes it is necessary to search for the relevant broadcasting station and to set record it as a channel. The "programme number" is the number that the user decides to associate with a certain channel.

For channel settings there are 60 positions available in the memory. In this way all stations broadcasting within the user's country can be received and recorded as a channel.

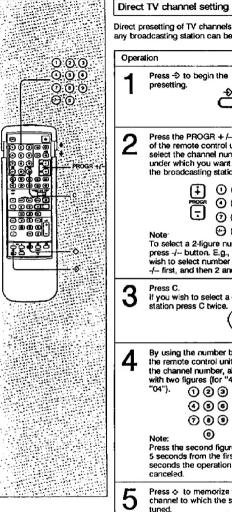


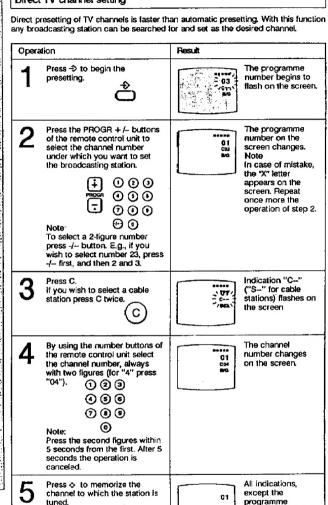


TV channels automatic presetting

If the numbers to be associated with certain TV channels are already known, the following explanation can be skipped. In this case go directly to the section "TV channels direct selection".

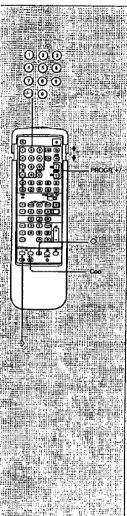
		T	
Opera	ition	Result	
1	Press → to begin the preselection.	The programme number flashes.	
2	Press PROGR +/- buttons of the remote control unit to select the channel number of the broadcasting station you want to memorize. 1	The programme number on the screen changes. NOTE: In case of a mistake, the "X" letter appears. Repeat once more the operation of step 2.	
3	To search for broadcasting stations press (20) + and - buttons 500 +	When a broadcasting station is tuned correctly, the search will stop. If you want to skip it, press III + or - again.	
4	Press ♦ to memorize the channel to that the broadcasting station is tuned.	All data visualized under the channel number disappears from the screen.	
5	To memorize other broadcasting stations repeat steps from 1 to 4.		





To memorize other broadcasting stations repeat the above procedure.

number, disappear from the screen.



Exclusion of programmes

Once all desired stations have been memorized, unoccupied channel numbers, with stations of inferior quality signals can be excluded. The undesired channels can be excluded by using the PROGR + and - buttons.

Operation		Result		
1	Press - ≎ to begi	n presetting.	- 08 - 08 - Crt - Bo	The programme number begins to flash on the screen.
2	By acting on the PROGR + and – buttons, or on the number keys of the remote control unit, select the programme number you wish to exclude. 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		03 Cod bd	The programme number changes.
3	Press Coo.	C.	03 cor so	Under the programme number, the preceding channel number appears.
4	Press ♦.	Å	03	All indications under the programme number disappear from the screen. The excluded programme number will be memorized.

NoteNote

Undesired channels can be excluded only by using PROGR + and - keys. Excluded programme numbers appear on the screen if you press the number keys of the remote control unit,

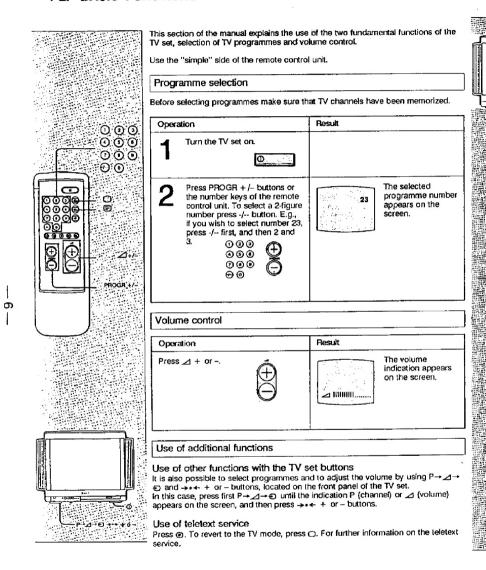
Use of additional tuning functions

Temporary channel tuning

It is possibile to temporarily memorize a channel, even if it has not been preset.

Operation		Result	
1	Press C. Press C twice for a cable station.	"C" ("S" for cable stations) indication appears on the screen.	
2	Using the number keys of the remote control unit select the channel number, always with two figures (e.g., "04" for channel "4").	The channel will be received, but it will not be set as a programme number.	

1-2. BASIC FUNCTIONS



1-3. SPECIAL FUNCTIONS

This section explains the use of functions for adjusting pictures and sound; for inserting on the screen the name of a channel, and for fine tuning of a channel.

Use the "complete" side of the remote control unit.

Use of special functions

The following functions can be used.

Function	Operation	Reset
Indication display	Press G	Press @ again.
Sound muting	Press ≪	Press ≭ again.
Language selection for bilingual programmes.	Press A/B. The selected language is displayed by the relevant indication on the screen.	Press A/B.
Sound adjustment for music programmes,	Press JJ	Press II again.
Use of special sound effects.	Press 🕀	Press 😝 again.
Time display (only during teletext broadcasting).	Press @	Press again.

Picture and sound adjustment

Although picture and sound adjustment has already been performed in the factory, it is still possible to make them more suitable to one's own taste. The following table shows all available functions and their effects.

peration

Function	Controls to be used	Result
Button selection	90 00 ► □ □ □	The symbol appears on the screen,
Adjustment of the selected function	9 -	The level has been adjusted.

Picture adjustment

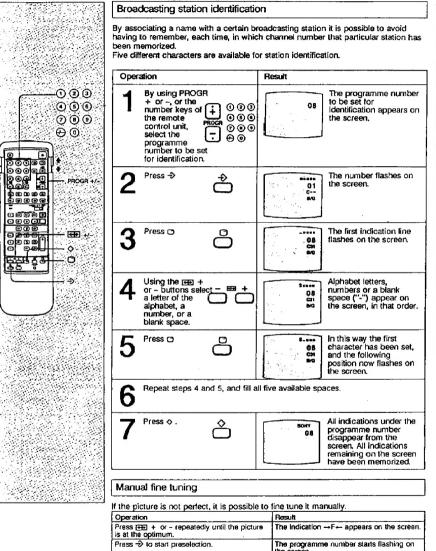
Adjustment	Symbol	Result (+ ↔ -)
Colour	•	Further or lesser colour intensity
Contrast	0	Further or lesser contrast
Brightness	¢	Bright () dark
Hue (for NTSC only)	triza	More red ↔ more green
Picture definition	Φ	More definition → less definition

Sound adjustment

Adjustment	Symbol	Result (+ ++ -)
Bass	2	More of low frequencies less of low frequencies
Treble	i.	More of high frequencies less of high frequencies
Speakers balance	22	Volume increase from right speaker Volume increase from left speaker

Reversion to the original adjustment Press → • ←.

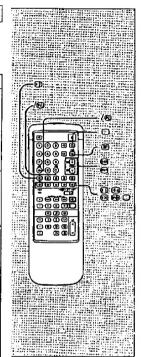
1-4. USE OF THE TELETEXT SERVICE



Note: Manual fine tuning will be reset when the channel is selected again.

Manual (ine tuning has been memorized.

Press .



Through the teletext service a great deal of information can be received at any time. Broadcasting stations make this service available through TV broadcasts. To use the teletext service, use the green keys on the "complete" side of the remote control unit. When the "simple" side of the remote control unit is used, only the basic functions are available.

When the "simple" side of the remote control unit is used, only the basic functions are available. How to display teletext service Operation Result Select the channel you want to The channel changes on the screen. watch. Press @ If there is no 9 teletext signal, the INDEX Indication "Page 100" appears on the screen. Use the number keys of the The selected page number appears remote control unit to insert the on the screen. After a few seconds, three figures corresponding to the selected page appears on the the desired teletext page. screen Note In case of a mistake, press any three numbers, and then repeat the operation with the correct numbers. To revert to normal TV programmes: Press (). To change teletext channel: First press on to revert to the TV mode, and then repeat procedure steps 1 to 3.

Note: A weak TV signal may cause troubles in the use of teletext.

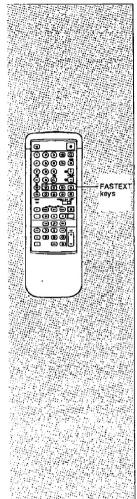
Use of special teletext functions

Required function	Operation	Result (on the screen)
Page index required.	Press to (INDEX).	Page index appears.
Sub-pages required (page 888).	Press 🗇	The sub-page appears (page 888).
Access to previous or following pages.	Press @ (PAGE +) or @ (PAGE -).	P201 The preceding or the following page appears.

Ì
O
١

Required function	Operation	Result (on the screen)	
Superimposition of the teletext on the TV programme.	in the TV mode, press @ twice. To revert to the normal teletext function press @ again.	Teletext information will appear superimposed on the TV programme.	
To prevent page changes due to page up dating.	Press ⊕ (STILL). Press ⊕ (TXT/MiX) to revert to the normal function.	The 9 (STILL) symbol appears on the screen.	
Magnification of teletext characters.	Press once to magnify the upper half of the screen. Press twice to magnify the lower half of the screen. Pressing the button three times the normal vision is restored.	The upper or the lower half of the page is magnified.	
Display of hidden information (answers to quizzes, ecc.).	Press @ (RIV). Press again to hide the answers.	The information is displayed.	
Watching a programme while	1. Ask again for the page.	The number is displayed.	
the teletext searches for the required page.	2 Press ®	TV programme is displayed.	
	When the required page has been found, the page number will be displayed.	P201	
	4. Press to display the page.	The desired page will be displayed.	
Display of a page at a preset time,	1. Request the page.	The selected page will be displayed.	
	2 Press @ (MEM.T).	In the lower part of the screen the indication "T****" appears.	
	3. Set the required time by using the number keys, and by inputting four figures (e.g. 0730 for "7:30").	The required time is displayed on the screen.	
	To watch TV programmes until a preset time Press @ (CANC.). At the required time, the selected page appears in the upper part of the screen. Press @ to display the page.		
	To cancel the request Display the teletext page and then press to (CANC.M.).		

Note: Depending on the teletext service, certain functions may not be available.



Use of the FASTEXT function

The FASTEXT function allows rapid access, at the touch of a single button, to the teletext functions. In the lower part of the screen, a colour coded index will be displayed when a FASTEXT teletext page is broadcasted. Each colour corresponds to the coloured keys on the remote control unit.

Operation

Operation	Result
Press one of the coloured key on the remote control unit corresponding to the coloured indications of the FASTEXT teletext page.	The selected teletext page appears on the screen.

Note

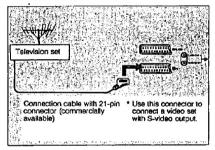
The correct use of the FASTEXT teletext function depends on the signal being broadcast by the TV stations. Some TV stations may not broadcast FASTEXT teletext signal

Connection to an external audio/video system

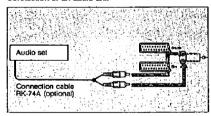
This TV set incorporates three groups of connectors, for input and output to the TV signal. Each group has the following characteristics.

Connector	Input signal	Output signal	
Ø-1	Normal audio/video signal or RGB signal	TV tuner audio/video signal	
O-2/D-	Normal audio/video signal and S-video signal	Audio/video signal from a selectable source	
-⊙, ⊙, -⊙ front panel	Normal audio/video signal and S-video signal	No signal	

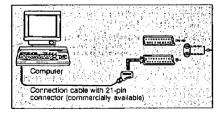
Connection of a TV set



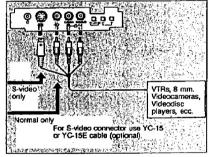
Connection of an audio unit



Connection to a computer with RGB output



Temporary connection of video apparatus For a temporary connection (e.g. of a videocamera) use the front panel terminals.



Connection of a video taperecorder through the Tr. connector

Connect the antenna input (AERIAL-IN) of the TV set to the antenna output (AERIAL-OUT) of the video taperecorder.

S-video input (Y/C input)

The video signal is formed by two separate signals: the luminance (Y) and the chrominance (C). Through the separation of the two signals it is possible to improve picture quality (luminance in particular). preventing reciprocal interferences. This TV set features two S-video sockets able to directly receive this type of signal.

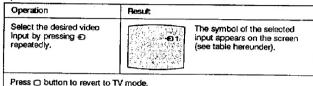
Pictures with distortion

Move the TV set away from the video taperecorder if pictures or sound become distorted.

Video programme playback

Using the input selector, pictures coming from a video taperecorder connected to the TV sets input, may be played back.

Operation



Selectable inputs

Symbol	Selected input
Ð1	Audio/video signal from 5-1 connector.
ð	RGB signal from 6-1 connector.
€2	Audio/video signal from @-2/@- connector.
- 9 2	S-video signal (from a VTR with S-video output) from @-2/@- connector.
⊕ 3	Audio/video signal from ⊕, ~∂ connector located on the front panel.
-93	S-video singal from S-video - (4 pin) connector located on the front panel.

Selection of video output from a ⊕ 2/⊕ connector

The G-2/G- connector may output 4 video signals. Select the outgoing video signal in the following way.

In this case, first select ⊕, and then press the + /- buttons to select the desired

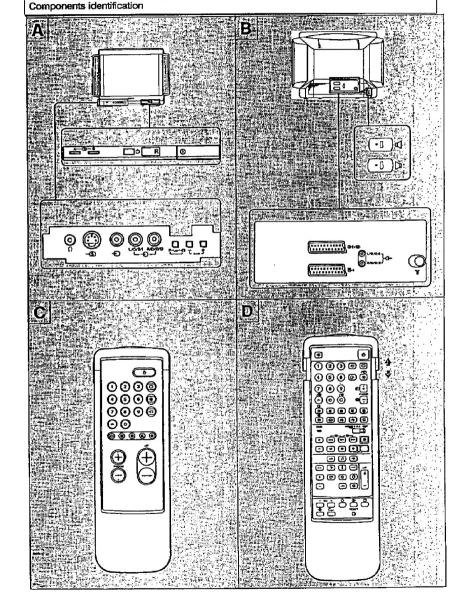
Operation

00000

00000

Operation	Result
Press : repeatedly to select the desired video input.	The selected video input symbol appears on the screen (see the table following).

Output signal	
Symbol	Selected output
10-	Audio/video signal from &1 connector.
2 ⊖-	Audio/video signal from G- 2/G- connector.
3 €	Audio/video signal from ⊕ and ⊕ connectors.
₩	Audio/video signal from T-type antenna connector 🖜



This section briefly describes controls of the TV set and the remote control unit, and thier relevant functions.

Α	A TV set front panel	
	Indication	Description
	Φ	Power switch
	Q	Stand-by switch
	A-CD-B	Bilingual function Indications
	Ω	Headphones connector (stereo mini-jack)
	-9∙ 0-0	Input connectors (S-video/video/audio)
	P-⊿-Ð	Function selector (programme/volume/input)
	- • +	Function adjustment keys

В	TV set rear panel	
	Indication	Description
	D D	Speaker connectors (upper: left speaker; lower: right speaker)
	G+2/G-	Connector 2, Euro AV (SCART, 21-pin). S-video in/video in/TV/video out signals.
	Ö -	Connector 1, Euro AV (SCART, 21-pin). RGB in/video in/TV/out signals.
	G+	Audio output connectors (RCA pin)
	אר	Antenna connector (of IEC standard)

С	C Remote contro unit — simplified side	
	Indication	Description
	Ð	Input selector
	₿	Teletext service key
	0	TV set power switch and TV mode selector
	ڻ ٺ	Standby key
1,2	2,3,4,5,6,7,8,9,0	Number keys
	- !	Channel selection key/ 2-figure programmes
	∠ +1-·	Volume adjustment key
	PROGR + /-	Programme selection key

D	D Remote control unit — complete side	
Indication		Description
	#2≮	Sound muting key
	Q	Standby key
1,2	,3,4,5,6,7,8,9,0	Number keys
	Ð	Input selector
	0	TV set power switch and TV mode selector
	Ð	Output selector
	€	Teletext key
	n	Music programme key
	A/B	Bilingual programmes language selection
	-/	Channel selection key/ 2-ligure programmes
	C	Channel direct selection key
	⊕	Special sound effect key
	0	Time display
	9090 9009 9009	Teletext operation keys
	Θ	Display key
	→• +	Reset key
	⊿ +1-	Volume adjustment keys
F	PROGR + /-	Programme selection keys
	1000m 27++-	lmage and audio adjustment keys
	MEM	MEM light indication
VID	EO 1/2/3, MDP	Video unit selector
	44FFF ■ II •	Video units function key
	Coo	Programme cancelling key
	÷	Channel presetting key
+ 🖽 -		Channel tuning keys
	♦	Channel storing keys
	0	Broadcasting stations Identification key
RESET		Cancel key

|